**Section 3 Cmdlets, Aliases, and Parameters used (as well as related Cmdlets)**

Clear-Host

Clears the display in the host program.

Aliases: cls, clear

Get-Date

Gets the current date and time.

Get-Member

Gets the properties and methods of objects.

Aliases: gm

Get-Process, Start-Process, Stop-Process

Gets, starts, or stops the processes that are running on the local or remote computer.

Aliases: Get-Process gps or ps, Start-Process saps or start, Stop-Process kill or spps

Get-Service, Start-Service, Stop-Service

Gets, starts, or stops the services on a local or remote computer.

Aliases: Get-Service gsv, Start-Service sasv, Stop-Service spsv

Get-WmiObject

Gets instances of WMI classes or information about the available classes.

Aliases: gwmi

Use the -List parameter to get a list of available classes or search them

Get-Variable

Gets the variables in the current console.

Aliases: gv

Get-PSDrive

Gets drives in the current session.

Aliases: gdr

New-Variable

Creates a new variable.

Aliases: nv

Get-Item, New-Item, Move-Item, Copy-Item, Remove-Item

Get,Create, move, copy, or remove an item

Aliases:Get-Item gi New-Item ni, Move-Item mi, Copy-Item copy or cpi or cp, Remove-Item rd or ri or rm

Get-Content

Gets the contents of a file.

Aliases: cat, gc, type

Select-Object

Selects objects or object properties.

Aliases: select

Sort-Object

Sorts objects by property values.

Aliases: sort

Where-Object

Selects objects from a collection based on their property values.

Aliases: ?, where

Get-ChildItem

Gets the files and folders in a file system drive

Aliases: dir, gci, ls

Measure-Command

Measures the time it takes to run script blocks and cmdlets.

Example usage: Measure-Command {Get-ChildItem -Path C:\Windows\\*.txt -Recurse}

Format-Wide

Formats objects as a wide table that displays only one property of each object.

Format-List

Formats the output as a list of properties in which each property appears on a new line.

Format-Table

Formats the output as a table.

Aliases: Format-Wide fw, Format-List fl, Format-Table ft

Out-Host

Sends output to the command line.

Out-File

Sends output to a file.

Out-Gridview

Sends output to an interactive table in a separate window.

Out-Printer

Sends output to a printer.

Aliases: Out-Host oh, Out-Gridview ogv, Out-Printer lp

Custom Expression or Calculated Properties Anatomy

@{name = “The display name you want here”; Expression = {$\_.Property / 1GB} }

$\_. This grabs the object coming through the pipeline so that you can choose a property

Example:

Get-WmiObject -Class Win32\_logicaldisk | select name, freespace, @{name = "FreeGB";expression = {$\_.freespace / 1GB}}

Running the above gives us a custom calculated property with our custom expression. This can make our output make more sense for a given objective.

